



**BUILDING CODE COMPLIANCE OFFICE (BCCO)**  
**PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA**  
**METRO-DADE FLAGLER BUILDING**  
**140 WEST FLAGLER STREET, SUITE 1603**  
**MIAMI, FLORIDA 33130-1563**  
**(305) 375-2901 FAX (305) 372-6339**

## **NOTICE OF ACCEPTANCE (NOA)**

**[www.maimidade.gov/buildingcode](http://www.maimidade.gov/buildingcode)**

**CGI Windows & Doors**  
**10100 NW 25 Street**  
**Miami, Fl. 33172**

### **SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### **DESCRIPTION: Clipped Aluminum Tube Mullion – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **M95-13A**, titled "Mullion Elevations and Details", sheets 1 through 5 of 5, dated 11/25/95 with revision D dated 03/27/08, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

### **MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA # **07-0312.02** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



**NOA No. 08-0331.07**  
**Expiration Date: March 28, 2013**  
**Approval Date: May 8, 2008**  
**Page 1**

**CGI Windows & Doors**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **M95-13A**, titled "Mullion Elevations and Details, sheets 1 through 5 of 5, dated 11/25/95 with revision D dated 03/27/08, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of aluminum casement windows mulled using a 1" x 2" x 1/8" aluminum tube mullion, prepared by Hurricane Testing Lab, Inc., Test Report No(s). **HTL-0080-0105-08**, dated 03/26/08 for specimens #1, & 2, signed and sealed by Vinu J. Abraham, P.E.
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC PA-202-94 along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Hurricane Engineering & Testing Inc. Test Report No. **HETI-96-525**, dated February 12, 1996, signed and sealed by Hector M. Medina, P.E.  
*(Submitted under NOA#02-123.06)*
3. Test reports on: 1) Large Missile Impact Test, Loading per PA 201-94 along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0080-0303-96**, dated 03/06/96, signed and sealed by Timothy S. Marshall, P.E.  
*(Submitted under NOA#02-123.06)*

**C. CALCULATIONS**

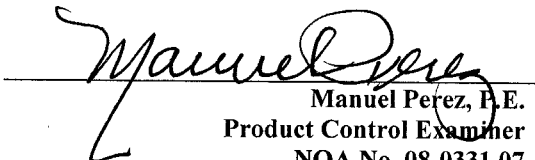
1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by Al-Farooq Corporation, dated 03/27/08, signed and sealed by Humayoun Farooq, P.E.

**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO).

**E. MATERIAL CERTIFICATIONS**

1. None.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 08-0331.07  
Expiration Date: March 28, 2013  
Approval Date: May 8, 2008

**CGI Windows & Doors**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

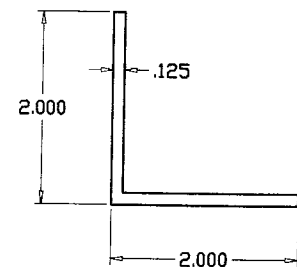
1. Statement letter of conformance, dated March 27, 2008, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated March 27, 2008, signed and sealed by Humayoun Farooq, P.E.

**G. OTHER**

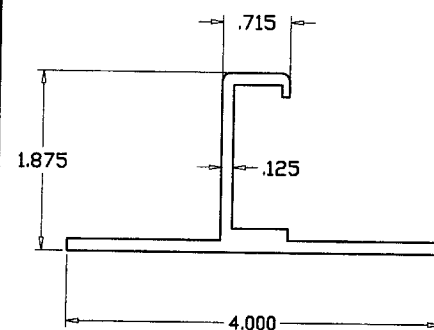
1. Notice of Acceptance No. **07-0312.02**, issued to Construction Glass Industries for their Aluminum Tube Mullion – L.M.I., approved on 06/14/07 and expiring on 03/28/08.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 08-0331.07

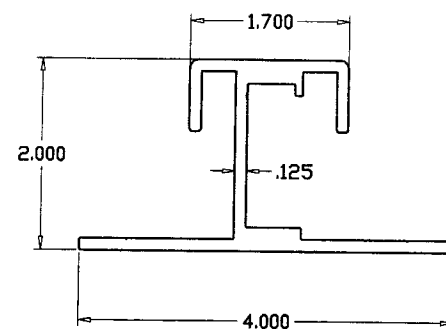
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Approval Date: May 8, 2008



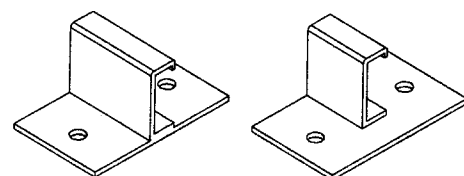
CLIP ANGLE  
6063-T5



MULLION CLIP FOR 1BY TUBES  
CGI-383  
6063-T6  
(ALT. TO 2 PIECE CLIP)



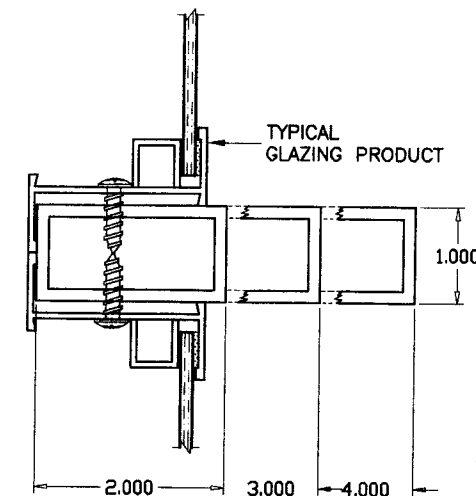
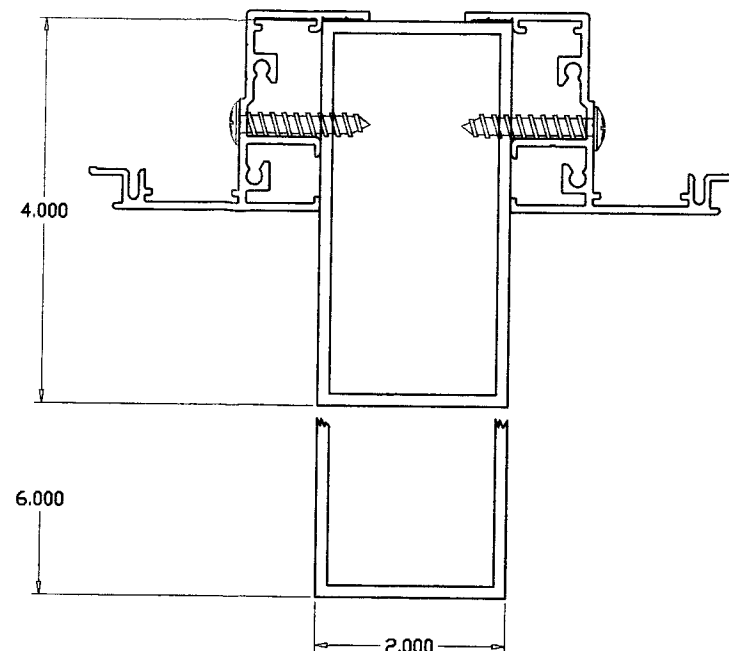
MULLION CLIP FOR 2BY TUBES  
CGI-395  
6063-T6  
(ALT. TO 2 PIECE CLIP)



# INSTRUCTIONS:

USE CHARTS AND GRAPHS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN LOAD REQUIRED PER ASCE 7 FOR PARTICULAR OPENING.
- STEP 2** USE DADE COUNTY APPROVED GLAZING PRODUCTS MEETING ABOVE LOAD REQUIREMENTS.
- STEP 3** USE CONNECTION TO MULLION AS PER PRODUCT APPROVAL.
- STEP 4** USING GRAPHS ON SHEET 2 SELECT MULLION SIZE WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** USING ANCHOR TYPES ON SHEETS 4 & 5, AND ANCHOR GRAPHS ON SHEET 3, SELECT ANCHOR TYPE WITH DESIGN RATING MORE THAN THE DESIGN LOADS SPECIFIED IN STEP 1 ABOVE.



## MULLIONS CONTAINING TYPICAL GLAZING PRODUCTS HORIZONTAL OR VERTICAL

SEE WINDOW OR DOOR APPROVAL FOR FASTENERS SIZES AND SPACING

ALL MULLIONS 6063-T6 MIN.

## RECTANGULAR ALUMINUM TUBE MULLIONS USING MULLION PROPERTIES ONLY

### NOTES:

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004/2007 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

ALL GLAZING PRODUCTS USED WITH THESE MULLIONS MUST MEET THE APPLICABLE BUILDING CODE REQUIREMENTS I.E: WIND LOAD, WATER INFILTRATION, FORCED ENTRY RESISTANCE, SAFEGUARDS ETC.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL COVERING (STUCCO, TILE ETC.).

ANCHORING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2004 FLORIDA BLDG. CODE SECTION 2003.8.4.

MULLION SYSTEM IS RATED FOR LARGE MISSILE IMPACT.  
AND CAN BE USED WITH ALL MIAMI-DADE COUNTY APPROVED  
IMPACT AND NON-IMPACT RESISTANT PRODUCTS.

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538

PRODUCT REVISED  
as complying with the Florida  
Building Code

Acceptance No 08-0331.07  
Expiration Date MARCH 28, 2013

MAR 27 2008

By *Mamuel P...*  
Miami Dade Product Control  
Division

## MULLION ELEVATIONS AND DETAILS

### CGI WINDOWS & DOORS.

10100 NW 25 STREET  
MIAMI, FL. 33172

TEL. (305) 593-6590 FAX. (305) 593-6592

revisions:	no	date	by	description
	A	01.24.96	T.H.	ANCHOR/GRAPHS REVISED
	B	01.16.02	T.H.	ANCHORS TYPE A & B REV.
	C	04.28.07	REV.	PER BCCO COMMENTS
	D	03.27.08	NOTE	REV.

date:	11-25-95
scale:	1/2" = 1"
dr. by:	HAMID
chk. by:	

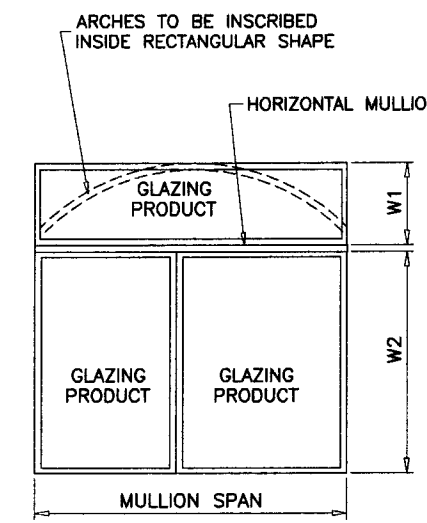
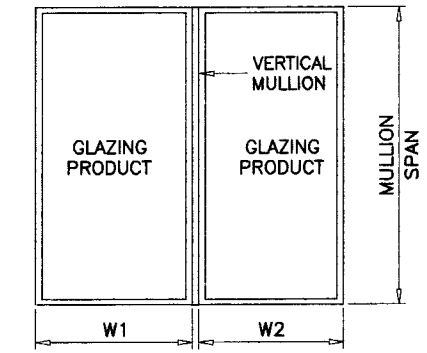
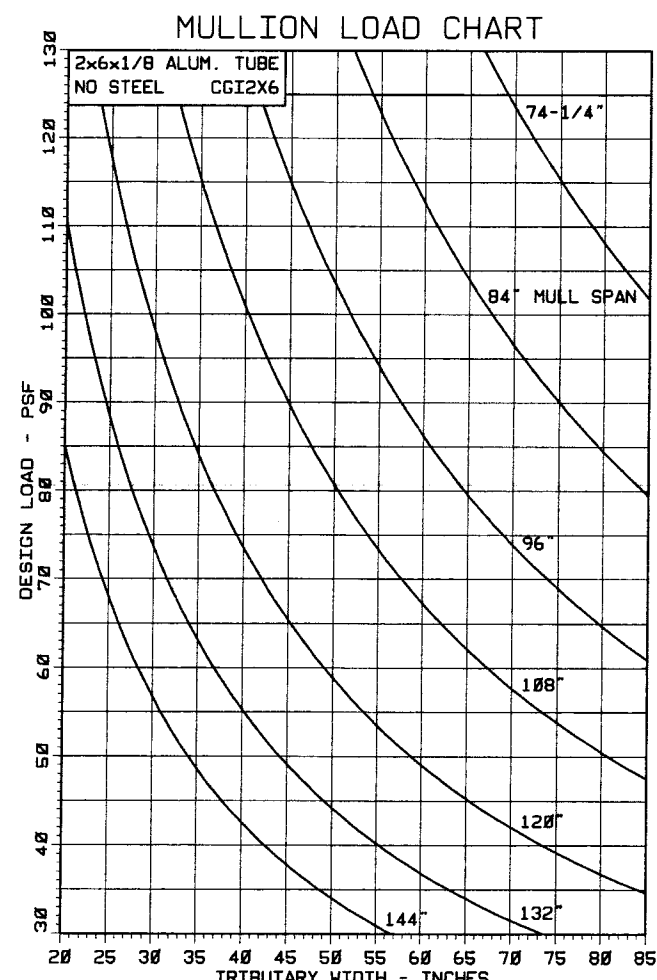
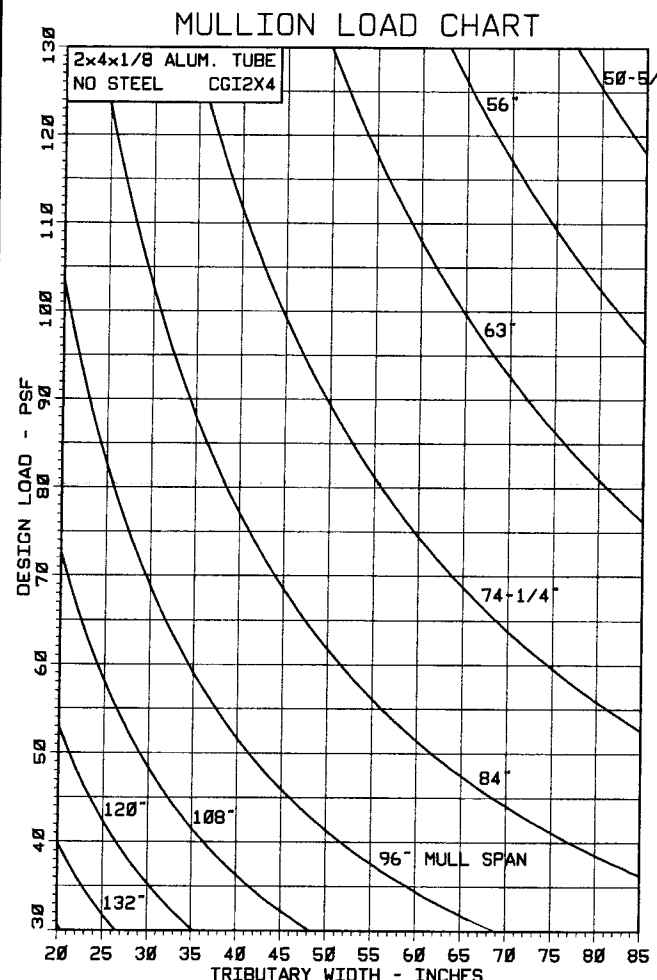
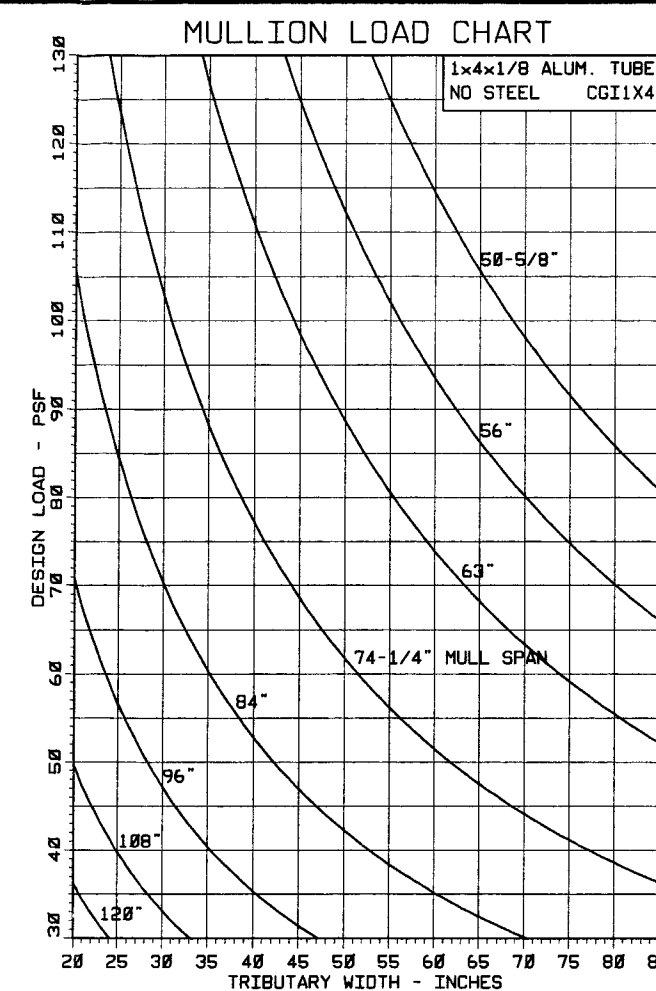
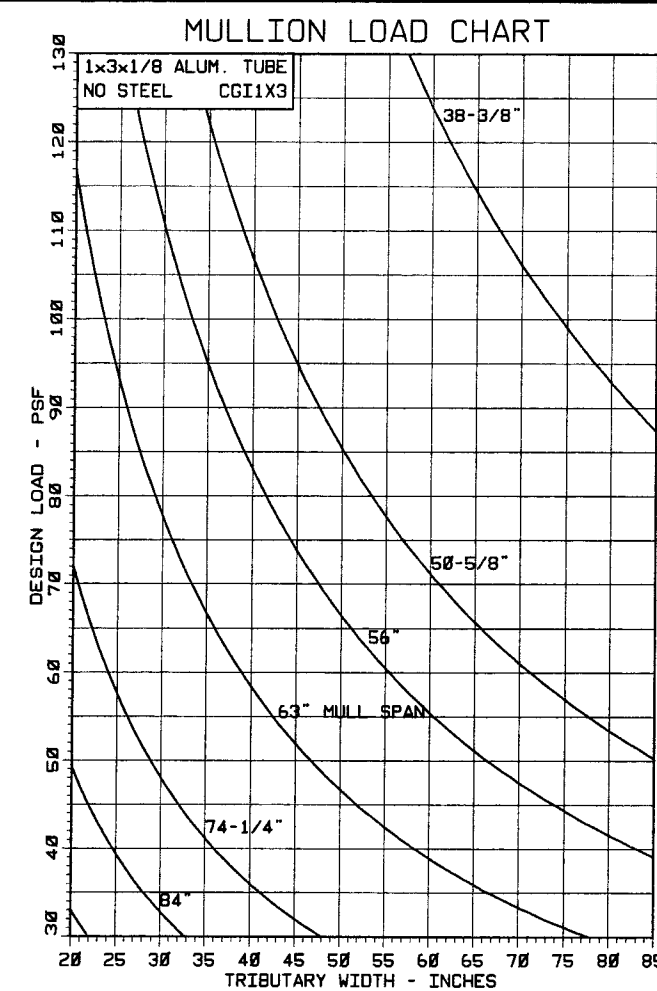
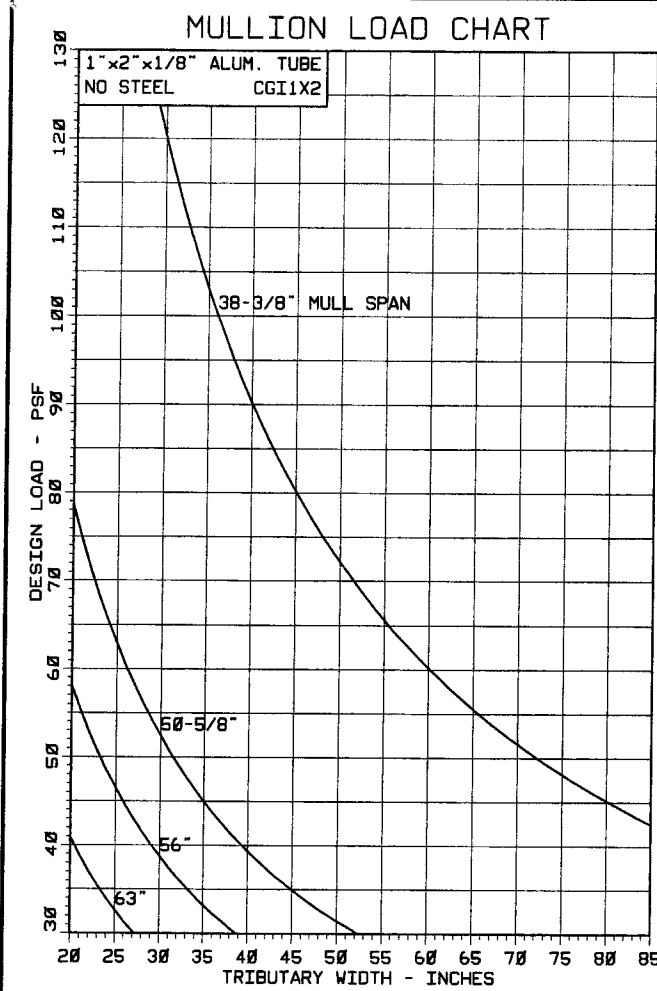
drawing no.

M95-13A

sheet 1 of 5

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978

MULLION M95-13A-NEW



#### TYPICAL MULLION ARRANGEMENTS

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

**NOTE:**  
MULLIONS RATED IN THESE CHARTS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY.  
(INTERPOLATION BETWEEN WIDTHS ALLOWED)

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. DB-0331.07  
Expiration Date MARCH 22, 2013  
MAR 2 2013

MULLIONS

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978

**af c**  
MULLION\M95-13A-NEW

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MULLION ELEVATIONS AND DETAILS

**CGI WINDOWS & DOORS.**  
10100 NW 25 STREET  
MIAMI, FL. 33172  
TEL. (305) 593-6590 FAX. (305) 593-6592

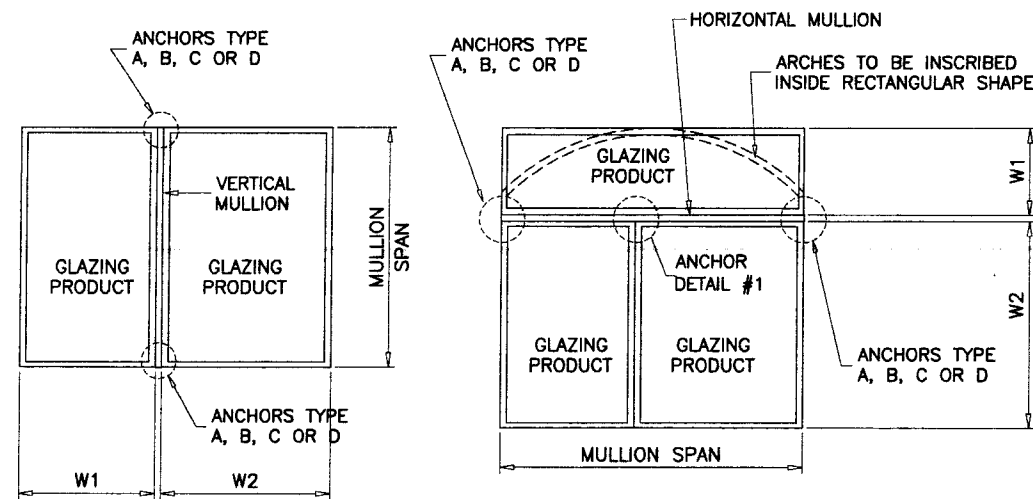
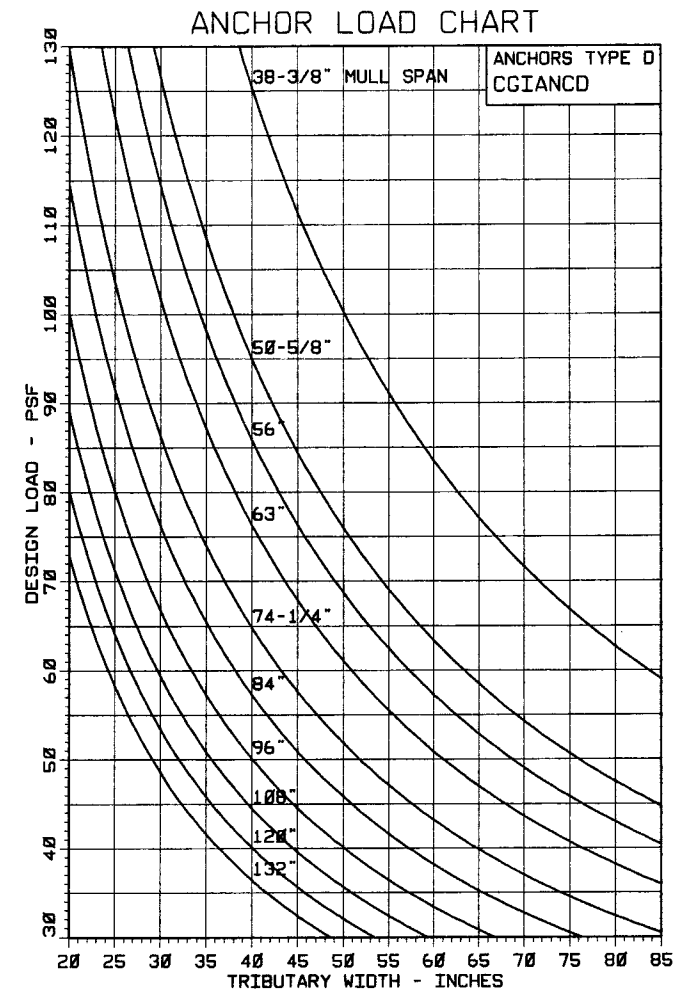
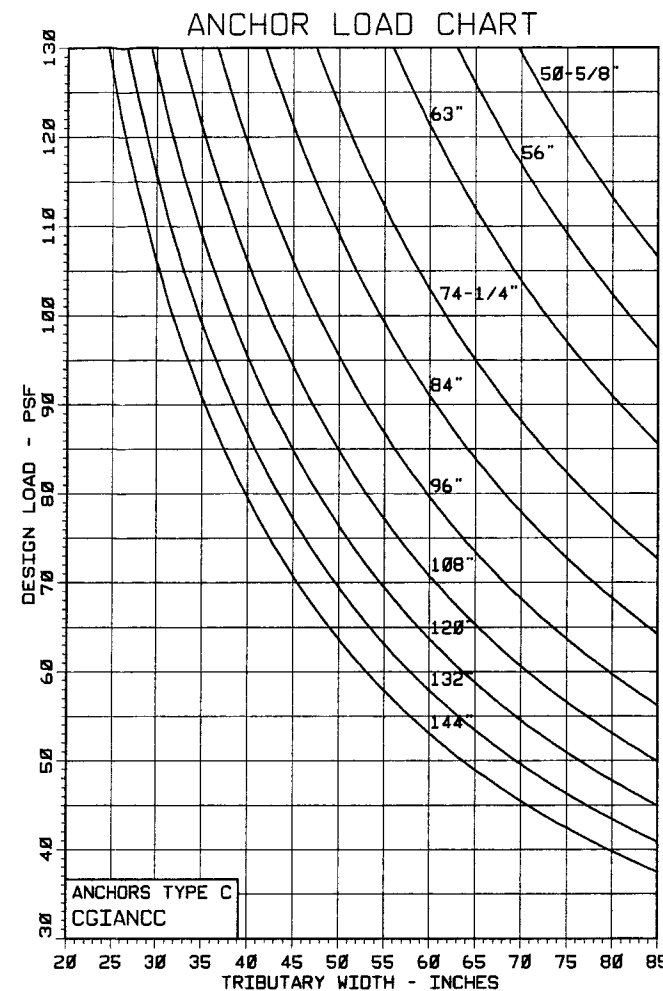
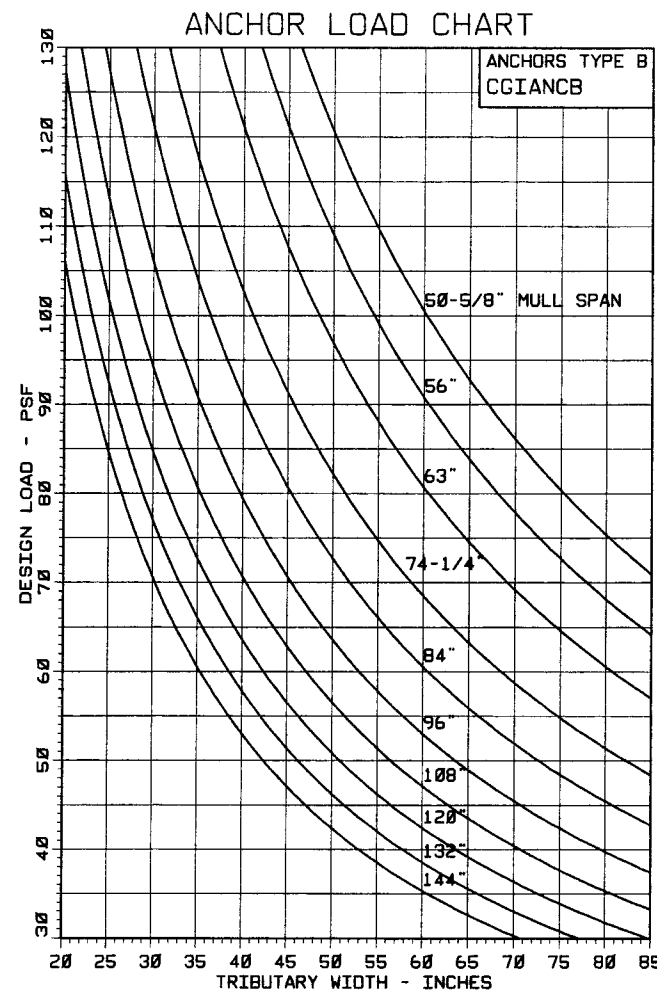
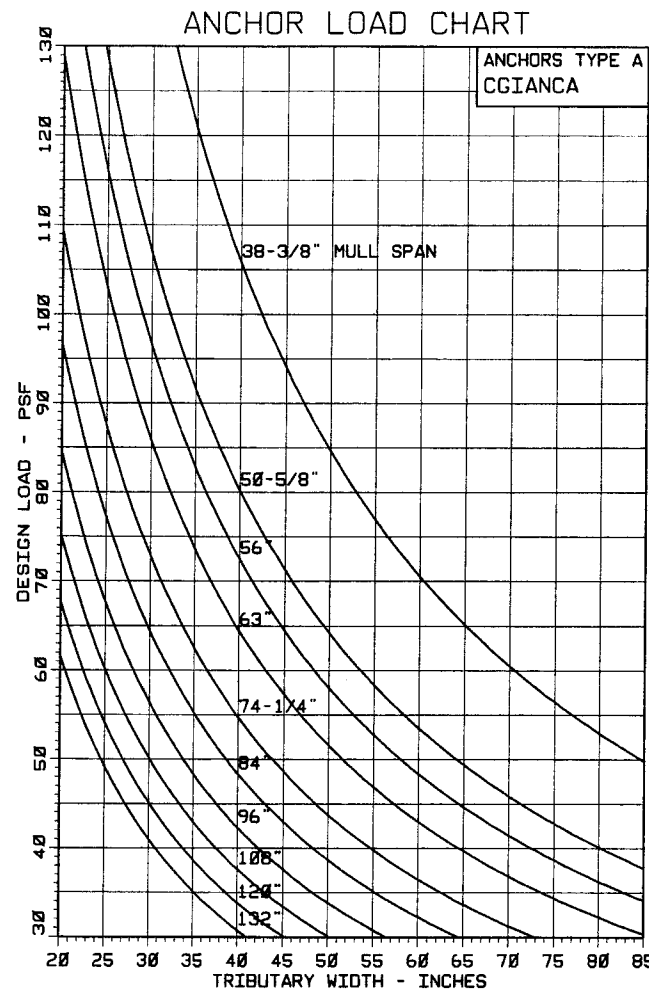
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date: 11-25-95  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**M95-13A**

sheet 2 of 5

date: 11-25-95  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:



TYPICAL MULLION ARRANGEMENTS

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

**NOTE:**  
ANY ANCHOR CONDITION SHOWN HEREIN MAY COVER LOCATIONS AT HEAD, SILL OR JAMB ENDS.  
FOR ANCHORS DESCRIPTION SEE SHEETS 4 & 5.  
(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)

Engr. DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 08-0331-07  
Expiration Date MARCH 28, 2013

By *Manuel Perez*  
Miami Made Product Control  
Division

MAR 27 2008

ANCHORS

**afC**

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
MULLION M95-13A-NEW

MULLION ELEVATIONS AND DETAILS

**CGI WINDOWS & DOORS.**  
10100 NW 25 STREET  
MIAMI, FL. 33172  
TEL. (305) 593-6590 FAX. (305) 593-6592

revisions:	no	date	by	description
	D	03.27.08		NO CHANGE THIS SHEET

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dr. by: HAMID  
chk. by:

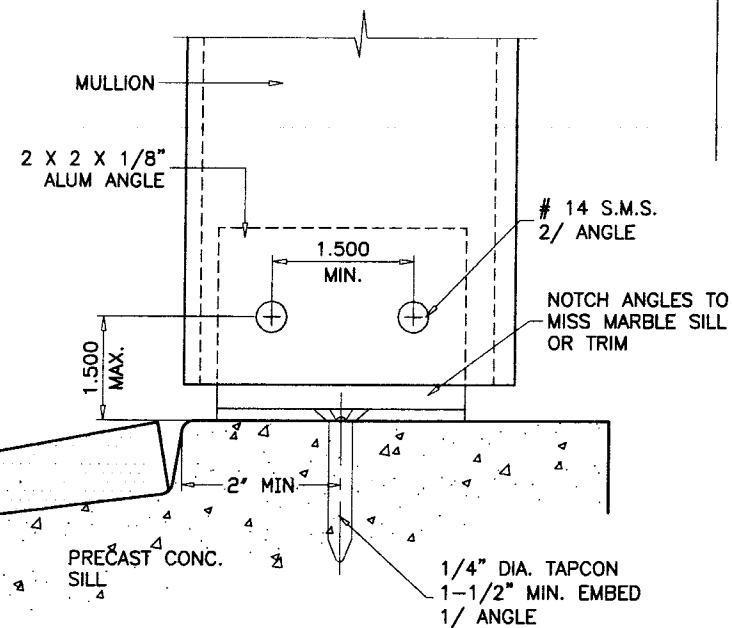
drawing no.  
**M95-13A**

sheet 3 of 5

Technical drawing of a door assembly. The drawing shows a door with a mullion and a 2x2x1/8" aluminum angle. The door is labeled "1BY OR 2BY WOOD BUCK". The drawing includes dimensions and labels for the door components.

Labels and dimensions:

- MULLION
- 2 X 2 X 1/8" ALUM. ANGLE
- 2-5/8" LONG
- 1.500 MIN.
- 1.500 MAX.
- 1BY OR 2BY WOOD BUCK



Technical drawing of a window assembly detail. The drawing shows a cross-section of a window frame with a Mullion, Alum Angle, and 1BY or 2BY Wood Buck. The Mullion is labeled "2 X 2 X 1/8\" ALUM ANGLE 2-5/8\" LONG". The Alum Angle is labeled "2.000 MIN." and "1.500 MAX.". The Wood Buck is labeled "1BY OR 2BY WOOD BUCK". The drawing includes dimensions for the height of the mullion (2.000 MIN.) and the width of the angle (1.500 MAX.).

NOTCH WOOD BUCK  
 TO ACCOMMODATE  
 CLIP ANGLE TO MASONRY

2 X 2 X 1/8"  
 ALUM ANGLE

# 14 S.M.S.  
 3/ ANGLE

1/4" Ø TAPCON  
 1-1/4" MIN. EMBED  
 2/ ANGLE

MULLION

CONCRETE OR  
 MASONRY BLOCKS

Technical drawing of a window assembly detail. The drawing shows a cross-section of a window frame. A vertical mullion is labeled "MULLION". A horizontal aluminum angle is labeled "2 X 2 X 1/8\" ALUM. ANGLE" and "3-5/8\" LONG". Three screws are shown, each with a circular head marked with a cross. The vertical spacing between the screw heads is labeled "3.000 MIN.". The horizontal distance from the mullion to the center of the screws is labeled "1.500 MAX.". The screws are shown passing through the aluminum angle and into the window frame. The window frame is indicated by a dashed line. The drawing is a black and white line drawing.

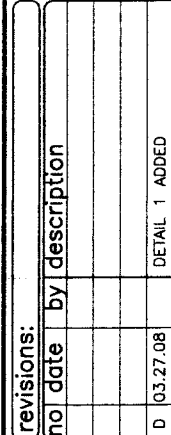
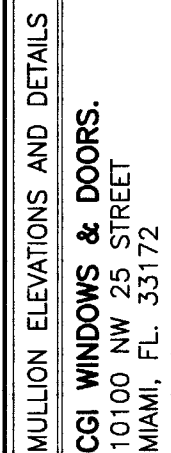
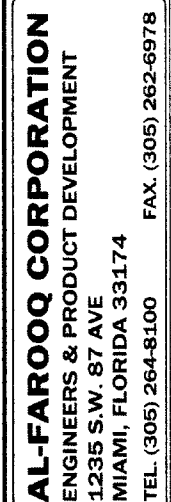
INTO CONCRETE AND MASONRY = 2" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.  
 INTO METAL STRUCTURE = 5/8" MIN.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. **08-0331-07**  
Expiration Date **MARCH 28, 2013**  
By *Maurell Reese*  
District Product Control  
Division

MAR 27 2008

drawing no.  
**M95-13A**  
sheet 4 of 5

**a f c**



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 08-0331-07  
Expiration Date MARCH 28, 2013  
By Manuel Perez  
Miami Dade Product Control  
Division

MAR 27 2008

date: 11-25-95  
scale: 1/2" = 1"  
dr. by: HAMID

drawing no

**M95-13**

sheet 5 of 5